

1010 Rec'd PCT 04 JAN 2002

FORM PTO-1390
(REV. 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER

VOCL 19.298

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/019790

INTERNATIONAL APPLICATION NO.
PCT/IL00/00258

INTERNATIONAL FILING DATE
07 MAY 2000 (07.05.00)

PRIORITY DATE CLAIMED

TITLE OF INVENTION

Method and Apparatus for Remote Control of a Website Visit

APPLICANT(S) FOR DO/EO/US

Ofer SHEM TOV, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: **Copy of WO 01/86451**

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1290.

Filed by Express Mail
(Receipt No. EL868036053US)
on January 4, 2002
pursuant to 37 C.F.R. 1.10.

by [Signature]

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/019790		INTERNATIONAL APPLICATION NO. PCT/IL00/00258		ATTORNEY'S DOCKET NUMBER VOCL 19.298	
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21. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. \$1000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS PTO USE ONLY <div style="display: flex; justify-content: space-between;"> \$ 1,000.00 </div>	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	16 - 20 =	0	x \$18.00	\$	
Independent claims	2 - 3 =	0	x \$80.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$270.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 1,000.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
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a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.

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 A duplicate copy of this sheet is enclosed.

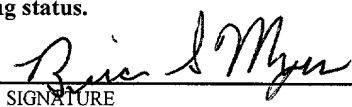
c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
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d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card
 information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR
 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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Filed Via Express Mail
Rec. No.: EL868036053US
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By: *[Signature]*
Any fee due as a result of this paper, not covered by an
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Attorney Docket No.: VOCL 19298

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : **Ofer SHEM TOV**
Serial No. : **Concurrently Herewith**
Filed : **Concurrently Herewith**
Title : **METHOD AND APPARATUS FOR REMOTE
CONTROL OF A WEBSITE VISIT**

January 4, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

S I R:

Prior to the issuance of an Office Action, please amend the application as follows:

In the Claims

Please amend claim 4, 5, 7, 12, 13, 15 as follows:

4. (Amended) The apparatus according to Claim 1, wherein the network contains a public switched telephone network and a computer network.
5. (Amended) The apparatus according to Claim 1 being further configured for receiving and storing data.
7. (Amended) The apparatus according to Claim 1 further comprising a computer telephony/Internet interface configured to convert a DTMF signal transmitted over a public switched telephone network into an equivalent Internet Protocol signal.

12. (Amended) The method according to Claim 1 wherein the network contains a public switched telephone network and a computer network.

13. (Amended) the method according to Claim 9 further comprising steps of receiving and storing data.

15. (Amended) The method according to Claim 9 further comprising a step of converting a DTMF signal into an equivalent Internet Protocol signal.

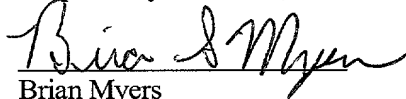
REMARKS

Claims 4, 5, 7, 12, 13, 15 were amended to correct multiple dependency.

Attached hereto is a marked-up version of the changes made to the application by the current amendment. The attached page is captioned **"Version with markings to show changes made."**

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Account 50-1290.

Respectfully submitted,



Brian Myers

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

4. (Amended) The apparatus according to ~~any one of the previous claims~~ Claim 1, wherein the network contains a public switched telephone network and a computer network.
5. (Amended) The apparatus according to ~~any one of the previous claims~~ Claim 1 being further configured for receiving and storing data.
7. (Amended) The apparatus according to ~~any one of the previous claims~~ Claim 1 further comprising a computer telephony/Internet interface configured to convert a DTMF signal transmitted over a public switched telephone network into an equivalent Internet Protocol signal.
12. (Amended) The method according to ~~any one of the previous claims~~ Claim 1 wherein the network contains a public switched telephone network and a computer network.
13. (Amended) The method according to ~~any one of Claims 9 to 12~~ Claim 9 further comprising steps of receiving and storing data.
15. (Amended) The method according to ~~any one of Claims 9 to 14~~ Claim 9 further comprising a step of converting a DTMF signal into an equivalent Internet Protocol signal.

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METHOD AND APPARATUS FOR REMOTE CONTROL OF A WEBSITE VISIT

FIELD OF THE INVENTION

The present invention relates generally to methods and apparatuses for interfacing with the Internet.

BACKGROUND OF THE INVENTION

5 An Internet Website typically consists of a large number of web pages. A surfer to a website is initially presented with a menu describing the contents of some of the web pages at the site. For example, the Website may be of a publishing company offering for sale various goods such as books, musical recordings, posters, etc. The surfer is prompted to select a web page from the
10 menu providing the information he is seeking. If for example, the surfer selects "books" from the menu, he will arrive at a web page where he is presented with another menu prompting him to select a web page providing more specific information of interest to him, for example, books of a particular genre.

This process of selecting a web page from successive menus ideally
15 continues until the surfer has arrived at the ultimate web page providing the specific information he is seeking. Unfortunately, however, quite often the surfer is bewildered by the maze of web pages he must navigate through in order to arrive at the ultimate page. An inappropriate page selection from a menu at one stage may lead the surfer astray, possibly irretrievably. Out of frustration, the
20 surfer may just decide to leave the site altogether. For a commercial Website, the loss of customers due to their inability to navigate to the ultimate page they are seeking obviously represents an unnecessary loss of potential revenue.

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In view of this problem, some websites allow a surfer to contact a human agent of the site by means of a two-way audio connection. The connection is transmitted partly over the internet via a "voice over Internet Protocol" (VoIP) connection, and partly over a public switched telephone network (PSTN). The connection may be initiated by the surfer clicking a button on his screen. The surfer may describe to the agent what information he is seeking at the site. The agent, by means of audio commands, guides the surfer through the site by instructing him as to the selection he must make from each menu in order to arrive, ultimately, at the page he is seeking. Since the surfer may be unable to accurately describe to the agent his location in the site and what he is looking for at the website, misunderstandings may occur, so that even with the agent's help the surfer may not obtain the information or service he is seeking.

A dual-tone multiple-frequency (DTMF) signal is the additive combination of two constant amplitude sinusoidal components. DTMF signals are used *inter alia* for representing telephone numbers and other signaling functions within a telephone system including interactive voice response. For example, the signal generated by depressing "1" on the telephone keypad is the sum of a 697 Hz and a 1209 Hz sine wave, and the signal generated by depressing the "5" is the sum of a 770 Hz and a 1336 Hz sine wave.

DTMF signals have been used in interfacing with the Internet. U.S. Patent No. 5,761,280 discloses browsing on the internet at a computer terminal using DTMF signals generated by depressing keys on a telephone key pad located near the computer terminal. U.S. Patent No. 5,945,989 discloses modification of a website using DTMF signals generated by an individual depressing keys on a telephone keypad connected by a Public Switched Telephone Network (PSTN) to the website server. Neither of these inventions is relevant to the problem of guiding a surfer through a website.

There is therefore a need in the art for a method to assist a surfer to a website in navigating within the site that reduces or eliminates the disadvantages of the known methods.

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SUMMARY OF THE INVENTION

While the present invention will be described primarily in relation to the Internet and the World Wide Web, it is also applicable to Intranets or other public networks that employ or could employ an Internet Protocol and/or a graphical user interface (GUI).

The invention provides a system that allows a remotely located agent to control aspects of a surfer's visit through a website. The invention is invoked, for example, when the surfer contacts the website's call center and requests assistance from an agent. The invention allows the agent to provide a rapid response to the surfer's request.

In response to a request from the surfer, the agent issues commands to the surfer's computer. A typical command might be, for example, that the web page currently displayed on the surfer's computer screen be replaced with another web page. The commands are coded in the form of DTMF signals that are generated when the agent depresses keys on a telephone keypad. The signals are initially transmitted from the agent's telephone over a PSTN to a computer telephony/Internet (CT/I) interface that transmits the DTMF signals to the surfer's computer over the Internet. The signals are decoded by the computer into commands in accordance with data that were stored in the computer when the surfer entered the site. The data assign each of a plurality of commands to a unique DTMF signal. The commands are transmitted over the Internet to the website, as is known *per se*, for example in Hypertext Markup Language (HTML). The website, in turn, executes the commands as if they had been initiated by the surfer and not by the agent.

Any type of command that can be stored in the application generator's database can be issued by the agent. Examples of such commands include the following:

- (1) Changing the web page appearing on the surfer's screen. For example, the surfer may tell the agent what information he is seeking at the website, and in response, the agent will have the web page

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containing this information displayed on the surfer's screen. The agent may accomplish this without having to display on the surfer's screen any intermediate pages, for example, those pages that the surfer would have to navigate through to arrive at the new page without the agent's assistance.

(2) Graphical modification of a web page appearing on the surfer's screen. For example, the agent might highlight a portion of the web page in order to draw the surfer's attention to information in that portion of the page.

(3) Generating an audio message or signal possibly coordinated with a graphical modification.

(4) Inputting data for the surfer into an e-form appearing on the surfer's screen and submitting the form.

The computer telephony/Internet (CT/I) architecture is an interface between the Public Switched Telephone Network (PSTN) and the Internet. The CT/I architecture allows a call agent without computer telephony hardware to take advantage of the TCP/IP open communication protocol to issue commands in the form of DTMF signals to the surfer's computer.

The invention thus provides an apparatus for remote control of a website visit configured to carry out steps of:

- a. receiving one or more DTMF signals transmitted from a remote source over a network, the DTMF signals coding for one or more commands and
- b. executing the commands coded by the DTMF signals so as to control the website visit.

The invention further provides a method for remote control of a website visit, comprising steps of:

- a. receiving one or more DTMF signals transmitted from a remote source over a network, the DTMF signals coding for one or more commands, and
- b. executing the commands coded by the DTMF signals so as to control the website visit.

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BRIEF DESCRIPTION OF THE DRAWINGS

In order to understand the invention and to see how it may be carried out in practice, a preferred embodiment will now be described, by way of non-limiting
5 example only, with reference to the accompanying drawings, in which:

Fig. 1 shows an exemplary architecture of the present invention; and,

Fig 2 shows a flow chart diagram of the method of the invention.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

Fig. 1 shows an exemplary architecture that is used with in accordance
10 with one embodiment of the invention. A surfer 115 is connected to a website 120 over the Internet represented a cloud 100.

At a call center 135 is a plurality of human agents 140 each of which is equipped with a touch-tone telephone 145. When the surfer 115 wishes to contact the call center 135, an audio connection is established from the surfer's computer
15 130 to the call agent 140. Between the surfer's computer 130 and the CT/I interface 175, the connection is over the Internet 100. Between the CT/I interface 175 and the agent's telephone 145, the connection being over the PSTN represented by the cloud 180.

When an agent 140 wishes to issue a command to the website 120, he
20 depresses a DTMF signal coding for the command on his telephone's 145 keypad. The DTMF signal is transmitted over the PSTN 180 to the CT/I interface 175 and is then transmitted over the Internet 100 to the surfer's computer 130. The computer 130 then decodes the DTMF signal 180 according to data that was stored in the computer 130 when the surfer logged onto the website 120. The
25 computer then issues the appropriate command to the website 120 over the Internet 100. The website 120 then executes the command as if it had been initiated by the surfer 115 and not the agent 140. If, for example, the command

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was to display a particular webpage on the screen of the computer 130, the surfer 115 would then observe the webpage on his computer screen.

Fig. 2 shows a flow chart diagram of the method of controlling a surfer's visit to a website in accordance with the invention. At step 200 a surfer 115 logs
5 onto a website 120 using his computer 130. The website 120 provides webpages at step 205, and at step 210 the webpages are loaded onto the browser of the computer 130. When the surfer 115 wishes to contact the website's call center 135, a voice over Internet Protocol connection is established over the Internet 100 between the computer 130 and the CT/I interface 175 (step 215). In step 220, the
10 connection is continued from the CT/I interface 175 to the agent's telephone 145 is over the PSTN 180. The agent's telephone rings (step 225) and the agent 140 and the surfer 115 then converse over the audio connection between them (step 230).

When the agent 140 wishes to issue a command to the website 120, he
15 depresses the DTMF signal code for the command on his telephone's 145 keypad (step 235). In step 240, the DTMF signal is transmitted over the PSTN 180 to the CT/I interface 175. The CT/I sends the DTMF signals over the Internet 100 to the surfer's computer 130 (step 245). In step 250, the computer 130 receives the DTMF signals and in step 255 the computer 130 decodes the signals and issues
20 the appropriate command to the website 120 over the Internet 100. The website 120 then executes the command in step 260. In step 270 execution of the command is observed on the screen of computer 130.

The present invention has been described with a certain degree of particularity but it should be understood that various modifications and alterations
25 may be made without departing from the scope or spirit of the invention as defined by the following claims. In the method claims that follow, alphabetic characters used to designate claim steps are provided for convenience only and do not imply any particular order of performing the steps.

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CLAIMS:

1. An apparatus for remote control of a website visit configured to carry out steps of :
 - a receiving one or more DTMF signals transmitted from a remote
 - 5 source over a network, the DTMF signals coding for one or more commands, and
 - b executing the commands coded by the DTMF signals so as to control the website visit.
2. The apparatus according to Claim 1 further comprising a DTMF signal generator.
- 10 3. The apparatus according to Claim 2 wherein the DTMF signal generator is a touch-tone telephone.
4. The apparatus according to any one of the previous claims, wherein the network contains a public switched telephone network and a computer network.
- 15 5. The apparatus according to any one of the previous claims being further configured for receiving and storing data.
6. The apparatus according to Claim 5, wherein the stored data consist of a code assigning a unique DTMF signal to each of one or more commands.
7. The apparatus according to any one of the previous claims further
- 20 comprising a computer telephony/Internet interface configured to convert a DTMF signal transmitted over a public switched telephone network into an equivalent Internet Protocol signal.
8. The apparatus according to Claim 6 further configured to carry out a step of decoding a DTMF signal by executing the command assigned to the
- 25 DTMF signal.
9. A method for remote control of a website visit, comprising steps of :
 - a receiving one or more DTMF signals transmitted from a remote
 - source over a network, the DTMF signals coding for one or more commands, and

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b executing the commands coded by the DTMF signals so as to control the website visit.

10. The method according to Claim 9 further comprising a step of generating one or more DTMF signals and transmitting the DTMF signals over the network.
11. The method according to Claim 10 wherein the step of generating one or more DTMF signals involves depressing buttons on the keypad of a touch-tone telephone.
12. The method according to any one of the previous claims wherein the network contains a public switched telephone network and a computer network.
13. The method according to any one of Claims 9 to 12 further comprising steps of receiving and storing data.
14. The method according to Claim 13, wherein the data consist of a code assigning a unique DTMF signal to each of one or more commands.
15. The method according to any one of Claims 9 to 14 further comprising a step of converting a DTMF signal into an equivalent Internet Protocol signal.
16. A method according to Claims 14 further comprising a step of decoding a DTMF signal by executing the command assigned to the DTMF signal.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

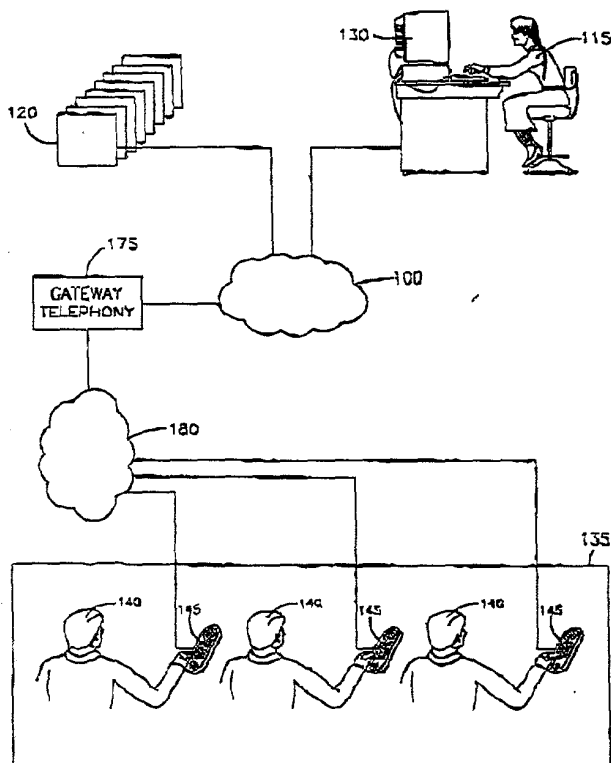
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PCT

(10) International Publication Number
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- (51) International Patent Classification⁷: **G06F 13/00** (74) Agent: **REINHOLD COEN AND PARTNERS**; P.O. Box 4060, 61040 Tel-Aviv (IL).
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- (22) International Filing Date: **7 May 2000 (07.05.2000)**
- (25) Filing Language: **English**
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- (71) Applicants (for all designated States except US): **VOCAL-TEC COMMUNICATIONS LTD.** [IL/IL]; Maskit Street 2, 46733 Herzliya (IL). **HERTZOG, Yuval** [IL/IL]; Shay Agnon Street 1, 43380 Ra'anana (IL).
- (81) Designated States (national): AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **SHEM TOV, Ofer** [IL/IL]; Hadekalim Street 14, 52532 Ramat Gan (IL).
- Published:
— with international search report

[Continued on next page]

(54) Title: **METHOD AND APPARATUS FOR REMOTE CONTROL OF A WEBSITE VISIT**

(57) Abstract: A method and apparatus for remote control of a website (120) visit. The method consists of receiving DTMF signals transmitted from a remote source over a network (100), where the DTMF signals code for a website (120) command. The commands coded by the DTMF signals are then executed so as to control the website (120) visit.

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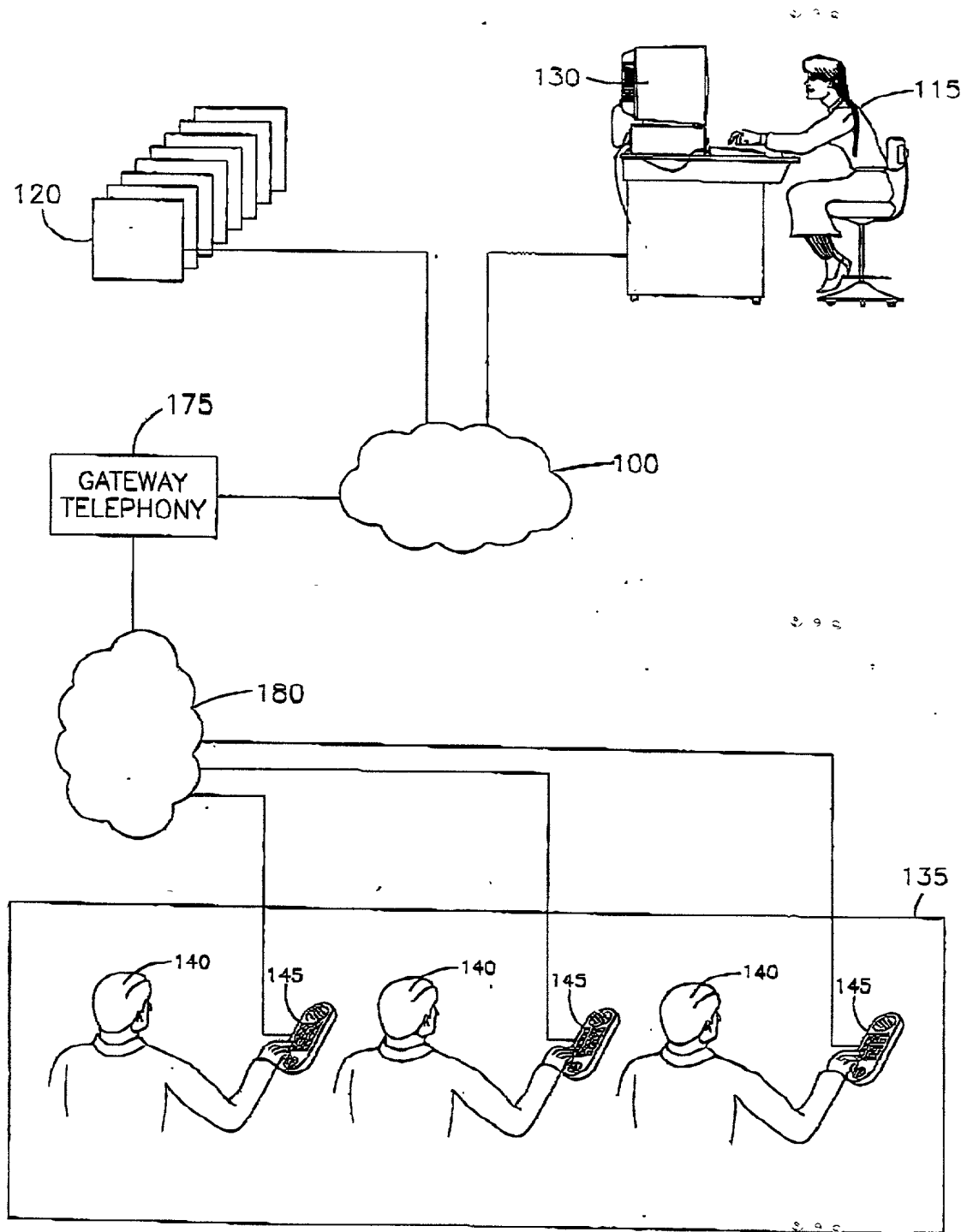


FIG.1

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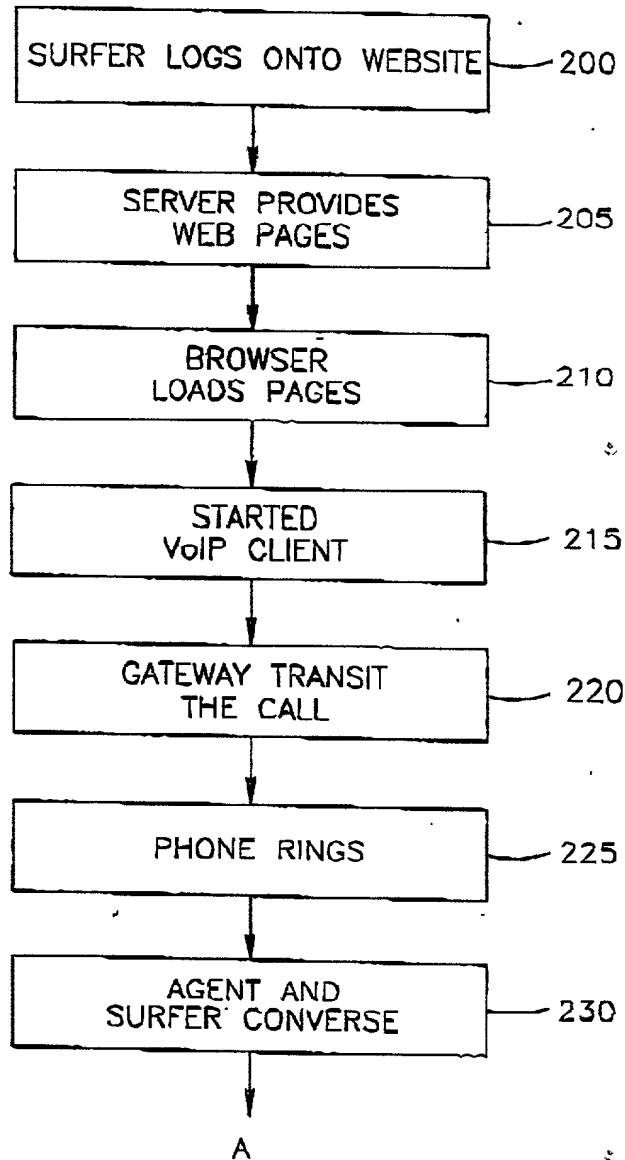


FIG.2A

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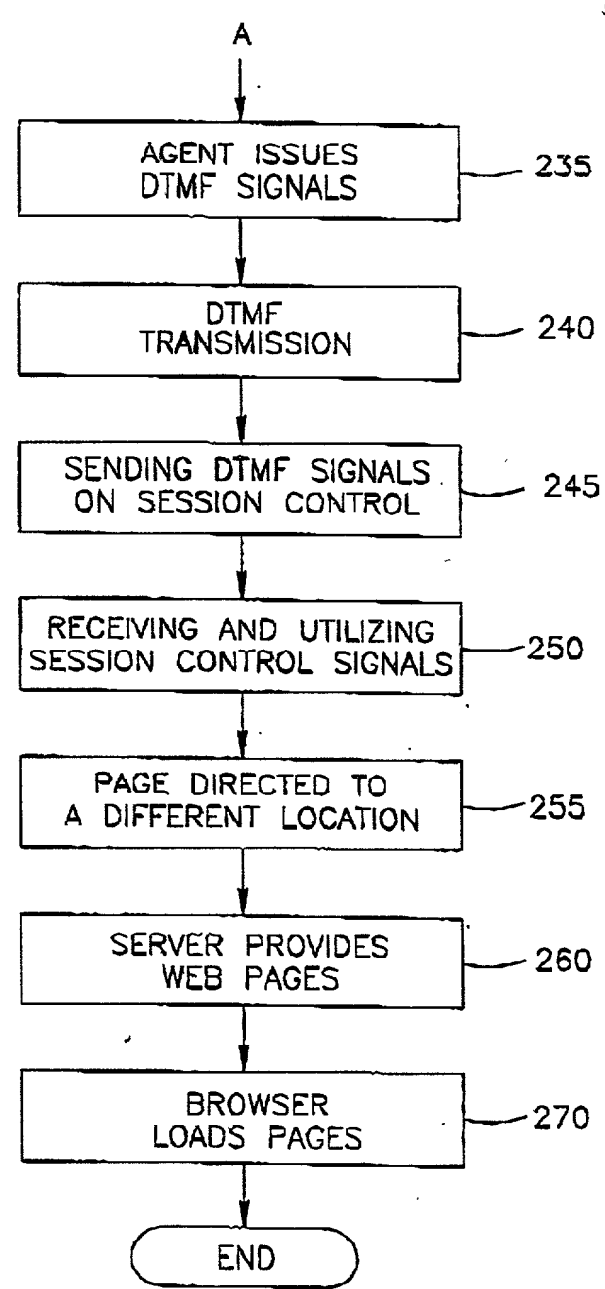



FIG. 2B.

Please type a plus sign (+) inside this box → 

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	VOCL 19.298
	First Named Inventor	Ofer SHEM TOV, et al.
	COMPLETE IF KNOWN	
	Application Number	10 / 019790
	Filing Date	January 4, 2002
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method and Apparatus for Remote Control of a Website Visit

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) January 4, 2002 as United States Application Number or PCT International

Application Number 10/019790 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
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☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

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As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☐ Customer Number OR
☒ Registered practitioner(s) name/registration number listed below

Place Customer Number Bar Code Label here

Name	Registration Number	Name	Registration Number
Samson Helfgott	23,072	Linda S. Chan	42,400
Aaron B. Karas	18,923	Michael Markowitz	30,659
Serle Mosoff	25,966	Brian S. Myers	46,947
Harris A. Wolin	39,432	Emma Shleifer	29,734
Shahan Islam	32,507	Thomas L. Bean	44,528

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number OR ☒ Correspondence address below

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
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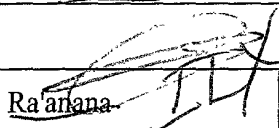
☐ Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
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